

Complete if Known

(Use as many sheets as necessary)

of 10

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|--------------------------|--|-----------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code ² Number ³ Kind Code ⁴ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear |
| | 6 | DE19511269 | 10/05/1995 | Ciba-Geigy AG | |
| | 7 | DE19520936 | 12/12/1996 | Bayer AG | |
| | 8 | EP192951 | 01/21/1986 | Bayer AG | |
| | 9 | EP234119 | 12/19/1986 | Rhone-Poulenc Agrochimie | |
| | 10 | EP302328 | 02/08/1989 | Bayer AG | |
| | 11 | EP357460 | 03/07/1990 | Sankyo Company Ltd. | |

Examiner
Signature

/Valerie Rodriguez-garcia/

Date
Considered

04/21/2009

*EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication. *Applicant's unique citation designation number (optional). *See "Kind of Document" of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. *Enter Office that served the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the year of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 10

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † |
|--------------------|----------|--|--------------------------------|---|---|---|
| | | Country Code* Number * Kind Code* (if known) | | | | |
| | 12 | EP382173 | 08/16/1990 | Meiji Seika Kaisha Ltd. | | |
| | 13 | EP444964 | 09/04/1991 | Ciba-Geigy AG | | |
| | 14 | EP503538 | 09/16/1992 | Meiji Seika Kaisha Ltd | | |
| | 15 | EP546391 | 06/16/1993 | Bayer AG | | |
| | 16 | EP594291 | 04/27/1994 | Sankyo Co. Ltd. | | |
| | 17 | EP626375 | 11/30/1994 | Bayer AG | | |

Examiner
Signature

/Valerie Rodriguez-garcia/

Date Considered

04/21/2009

*EXAMINER: Include a reference concerning, whether or not citation is in conformance with MPEP 909. Draw line through citation if not in performance and not considered. Indicate copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at <http://www.uspto.gov> or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the grant of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST-16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.89. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 36 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(Use as many sheets as necessary)

| | | | |
|-------|---|----|----|
| Sheet | 3 | of | 10 |
|-------|---|----|----|

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------|--|--------------------------------|---|---|---|
| Examiner Initials* | Cite No.† | Foreign Patent Document Country Code* Number* Kind Code* (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † |
| tion vided | 18 | WO87/03781 | 07/02/1987 | May & Baker Ltd. | | |
| | 19 | WO91/11172 | 08/08/1991 | University of Kansas | | |
| | 20 | WO93/15060 | 08/05/1993 | Nisicon Chemical Industry | | |
| | 21 | WO93/19053 | 09/30/1993 | Fujisawa Pharm. Co. Ltd | | |
| | 22 | WO93/25543 | 12/23/1993 | Bayer Aktiengesellschaft | | |
| | 23 | WO94/02518 | 02/03/1994 | University of Kansas | | |

Examiner
Signature

Nalerie Rodriguez-garcia

Date Considered:

04/21/2009

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). "See Kind's Documents of USPTO Patent Documents at www.uspto.gov or MPEP 601.04. Patent Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the year of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 is possible. Applicant to place a check mark here if English language transcription is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be forwarded to the Office of Management Information, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(Use as many sheets as necessary)

Sheet 4

of 10

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Foreign Parent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant: Passages Or Relevant Figures Appear | |
|--------------------|----------|---|--------------------------------|---|--|--|
| | | Country Code* Number* Kind Code* (if known) | | | | |
| vided | 24 | WO94/15944 | 07/21/1994 | Pfizer Inc | | |
| | 25 | WO94/19334 | 09/03/1994 | Meiji-Kaisha Ltd | | |
| | 26 | WO95/22552 | 08/24/1995 | Pfizer Inc | | |
| tion | 27 | WO96/11945 | 04/25/1996 | Bayer Aktiengesellschaft | | |
| vided | 28 | WO96/42706 | 06/02/1996 | Pfizer Inc | | |
| | 29 | WO96/15121 | 05/23/1996 | Bayer Aktiengesellschaft | | |

Examiner
Signature

Valerie Rodriguez-garcia/

Date Considered

04/21/2009

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's usual citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at <http://www.uspto.gov> or MPEP 901.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G

Complete if Known

(Use as many sheets as necessary)

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

[illegible]

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|----------|--|--------------------------------|---|---|---|
| Examiner Initials* | Cite No. | Foreign Patent Document Country Code* Number* Kind Code* (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | 1 |
| | 30 | WO98/24767 | 06/11/1998 | Pfizer Inc | | |
| | 31 | WO98/28278 | 07/02/1998 | Rhone-Poulenc Agrochimie | | |
| | 32 | WO98/55148 | 12/10/1998 | Janssen Pharmaceutica N.V | | |
| | 33 | WO98/57937 | 12/23/1998 | Du Pont Merck Pharmace... | | |
| | 34 | WO00/71532 | 11/30/2000 | Pfizer Inc | | |
| | 35 | WO01/19788 | 03/22/2001 | Cor Therapeutics Inc | | |

04/21/2009

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 6

of 10

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | † |
|--------------------|----------|--------------------------|--------------------------------|---|---|---|
| | | Country Code* (7) Number | | | | |
| | 36 | WO01/19798 | 03/22/2001 | Cor Therapeutics Inc | | |
| | 37 | WO02/58690 | 08/01/2002 | Chugai Seryaku Kabushiki | | |
| | 38 | WO03/37274 | 05/08/2003 | Ica-gen, Inc | | |
| | 39 | WO03/51833 | 06/26/2003 | Merck & Co., Inc. | | |
| | 40 | WO04/00318 | 12/31/2003 | Cellular Genomics, Inc. | | |
| | 41 | WO94/21606 | 09/29/1994 | Zeneca Limited | | |

Examiner
Signature

Nalerie Rodriguez-garcia/

Date
Considered

04/21/2009

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not corrected. Indicate copy of the form to be used in communication to applicant. ²Applicant's unique citation designation number (optional). ³See Kinds Code of USPTO and Japanese Documents at www.uspto.gov or MPEP 801.04. ⁴Enter Office that issued the document, by the two-letter code (WIPO Standard 87.3). ⁵For Japanese patent documents, the date of the year of the reign of the Emperor must precede the serial number of the patent document. ⁶Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST-16 if possible. ⁷Applicant is to place a check mark here if English language translation is attached.

Information for the USPTO is required by 37 CFR 1.57 and 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application forms to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you estimate to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-796-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 7

of 10

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No.! | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T* |
|--------------------|-----------|---|-----------------------------|---|---|----|
| | | Country Code* Number* Kind Code* (if known) | | | | |
| | 46 | WO97/03701 | | | | |
| provided | 43 | EP546391 | | | | |
| | 44 | EP1319657 | | | | |
| | 45 | WO04/043951 | | | | |
| | 46 | WO04/049797 | | | | |

Not provided

| | | | |
|--------------------|----------------------------|-----------------|------------|
| Examiner Signature | /Valerie Rodriguez-garcia/ | Date Considered | 04/21/2009 |
|--------------------|----------------------------|-----------------|------------|

EXAMINER: Indicate if reference considered, whether or not citation is in conformance with MPEP 809. Draw lines through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Document at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indicia of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.58. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or other suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND**

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|------------------|
| Application Number | 10/593133 |
| Filing Date | 09/18/2006 |
| First Named Inventor | Douglas Critcher |
| Art Unit | 1614 |
| Examiner Name | not yet assigned |
| Attorney Docket Number | PC25930A US |

Sheet 8 of 10

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| | 47 | HALEBLIAN, Journal of Pharmaceutical Science, 64(8), pp. 1269-1288, August 1985 | |
| | 48 | LARSEN. "Design and Application of prodrugs," Textbook of Drug Design and Discovery, 3rd Edition, 2002, pp. 410-458, Taylor and Francis Ltd., London | |
| | 49 | LIANG and CHEN, Expert Opinion in Therapeutic Patents, 11(6), pp. 981-986, 2001 | |
| | 50 | VERMA et al., Pharmaceutical Technology On-line, 25(2), 1-14, 2001. | |
| | 51 | FINNIN and MOGAN, Journal Pharm Sci, 88(10), 955-958, October 1999 | |
| | 52 | WOLNIEWICZ & DMOWSKI, J. Fluorine Chem., 2001, 109, 2, 95 (wo spec page 124) | |
| | 53 | HAINZL, D., et al. Chemical Research in Toxicology, 11(12), pp. 1529-1535, 1998 | |
| | 54 | HALL, H.K., et al. Journal of the American Chemical Society. 97(4), pp. 800-807, 1975 | |
| | 55 | Section Ch. Week 199340 Derwent Publications Ltd, London, GB: Class C02 An 1993-317444 xp002330928 | |
| | 56 | Chemical abstracts service, Columbus, OH, USA, xp003440935, retrieved from STN accession no. 1965:431646 RN 2574-76-7 | |

Only abstract
and not very clear

Not provided

| | | | |
|--------------------|----------------------------|-----------------|------------|
| Examiner Signature | /Valerie Rodriguez-garcia/ | Date Considered | 04/21/2009 |
|--------------------|----------------------------|-----------------|------------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.38. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /V.R.G